



SBCCOM

Homeland Defense Initiatives

Mr. J. H. Zarzycki
Technical Director
SBCCOM

Report Documentation Page		
Report Date 09Jul2001	Report Type N/A	Dates Covered (from... to) -
Title and Subtitle SBCCOM Homeland Defense Initiatives	Contract Number	
	Grant Number	
	Program Element Number	
Author(s) Zarzycki, J.H.	Project Number	
	Task Number	
	Work Unit Number	
Performing Organization Name(s) and Address(es) SBCCOM	Performing Organization Report Number	
Sponsoring/Monitoring Agency Name(s) and Address(es) NDIA (National Defense Industrial Association) 211 Wilson Blvd, STE. 400 Arlington, VA 22201-3061	Sponsor/Monitor's Acronym(s)	
	Sponsor/Monitor's Report Number(s)	
Distribution/Availability Statement Approved for public release, distribution unlimited		
Supplementary Notes Proceedings from Worldwide Chemical Conference, 9-13 July 2001 Sponsored by NDIA, The original document contains color images.		
Abstract		
Subject Terms		
Report Classification unclassified	Classification of this page unclassified	
Classification of Abstract unclassified	Limitation of Abstract UU	
Number of Pages 29		

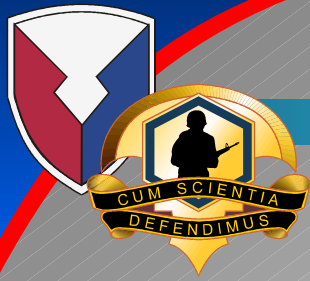


SBCCOM

U.S. Army Soldier and Biological Chemical Command

- This nation's warfighters have relied on SBCCOM and its Edgewood predecessors since 1917
- The Technical Escort Unit has supported chemical operations since World War II
- Since 1996, SBCCOM has been assisting the nation's responders prepare for WMD incidents





SBCCOM Spectrum of Operations

U.S. Army Soldier and Biological Chemical Command

A Tailored, Flexible & Ready Force Provider

CB-RRT

*Manage & Coordinate
CB Defense Technical
Response Capabilities*

SBCCOM Operations Center

Linkage to DoD Experts



Technical Escort Unit

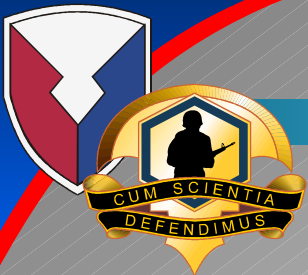
*Provide CB Assessment,
Sampling, Detection,
Mitigation, Render Safe,
Limited Decon, Packaging,
Escort, and Remediation
Worldwide*



Edgewood CB Center

*Unique CB defense
SME expertise
Fly-away Lab*

- ▶ **Anthrax hoaxes**
- ▶ **State of the Union Addresses**
- ▶ **Papal Visit 1999**
- ▶ **TOPOFF exercise, NH & CO - 2000**
- ▶ **Winter Olympics, Salt Lake City , UT - 2002**



Leveraging Warfighter RDA Mission for Homeland Defense

U.S. Army Soldier and Biological Chemical Command



DoD Warfighter Needs



Research



Development



Engineering & Prototyping



Warfighter Products



CB Incident Response



Emergency Responder Needs



Counterterrorism and Forensic Services



Fixed Site/Building Protection



National Protection Center



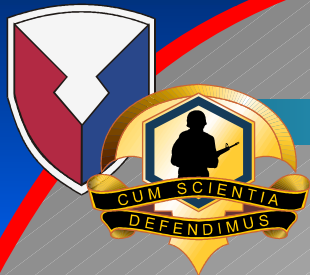
SBCCOM

U.S. Army Soldier and Biological Chemical Command

Support to Federal Agencies

Equipment Consultation

WMD Installation Preparedness

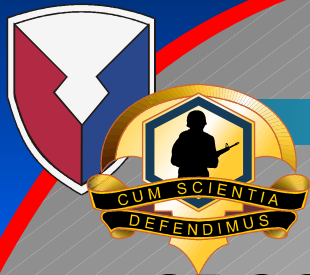


Department of Justice

U.S. Army Soldier and Biological Chemical Command

- Inter-Agency Agreement established with DOJ
- SBCCOM supports the Center for Domestic Preparedness, Anniston, Alabama
 - ▶ Chemical agent transport and application
 - ▶ Chemical surety program
 - ▶ Safety/security/reliability/environmental support
 - ▶ Industrial hygiene / medical surveillance
 - ▶ Protective clothing / equipment testing and consultation

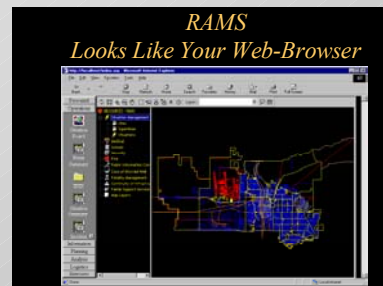
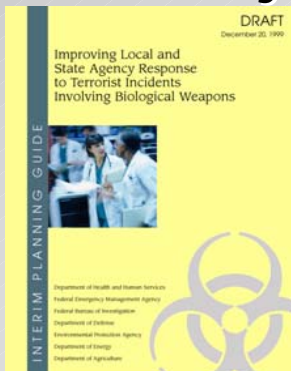


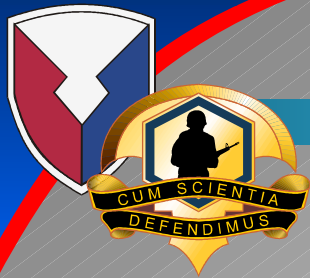


Department of Justice

U.S. Army Soldier and Biological Chemical Command

- SBCCOM supports the Office of State and Local Domestic Preparedness Support via:
 - ▶ Knowledge transfer - lessons learned
 - ▶ Technical and operational assistance for the CB Domestic Preparedness HelpLine
 - ▶ Improved Response Program (Civilian) - Working through SBCCOM to:
 - ➔ Update Guide Books and Planning Guides
 - ➔ Complete the *Responder Asset Management System (RAMS)*





Department of Justice

U.S. Army Soldier and Biological Chemical Command

Federal Bureau of Investigation

- MOA Established for support
- Designed, fabricated and assembled the *state-of-the-art*
- Fly Away Lab
 - ▶ Store, maintain and provide personnel to operate
 - ▶ Registered ISO 9000; Accredited to ISO Guide 25 /
 - ▶ ISO STD 17025
 - ▶ Developed and validated analytical methods
 - ▶ Provide supportive forensic laboratory services
- ▶ Can deploy within 4 hours of notification



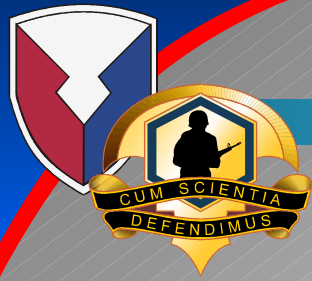


Department of State

U.S. Army Soldier and Biological Chemical Command

- **Consequence Management (CoM) Support Team (CMST)**
 - ▶ Provide subject matter expertise for CoM actions resulting from WMD incidents
- **Building protection and analysis**
 - ▶ Vulnerability assessments
 - ▶ Testing
 - ▶ Consultation





Environmental Protection Agency

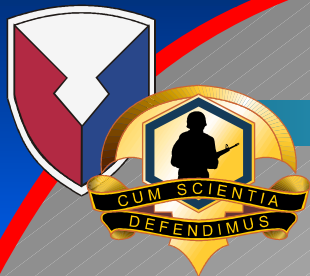
U.S. Army Soldier and Biological Chemical Command

- Initially supported EPA with environmental challenges and concerns
- Expanding assistance to homeland defense issues
 - ▶ Selection criteria development for PPE
 - ▶ Assisting with health and safety SOPs
 - ▶ Providing technology evaluation assistance for CB detectors
 - ▶ Provide monitoring and technical field support



Inter-Agency
Agreement





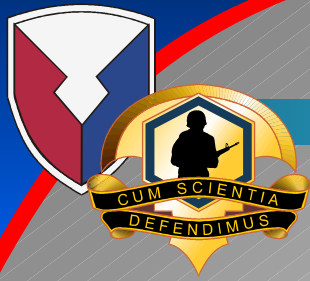
SBCCOM

U.S. Army Soldier and Biological Chemical Command



Equipment Consultation



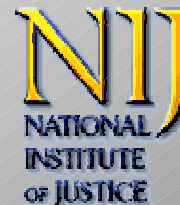


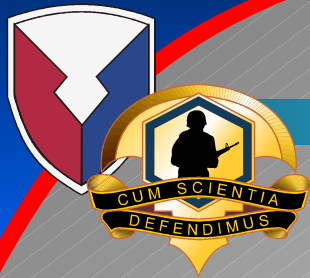
National Protection Center

U.S. Army Soldier and Biological Chemical Command

Protecting Those Who Protect Us...

The National Protection Center is a joint agency, alliance-driven center of expertise that conducts research, develops and accelerates fielding of advanced protective technologies that save lives and reduce injuries to personnel (military and civilian) engaged in high-risk occupations or conducting missions in extreme environments on earth or encountered in space.





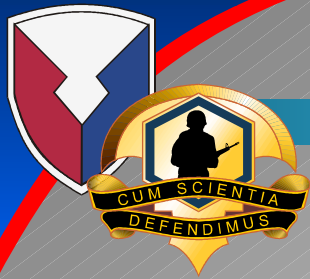
National Protection Center

U.S. Army Soldier and Biological Chemical Command

- **Ballistic**
- **Explosives**
- **Fire/Thermal Flash**
- **Laser (to eye)**
- **Hazardous Materials**
- **Environmental Contaminants / Pollutants**
(e.g. pesticides, detergents, other)
- **Weapons of Mass Destruction**
- **Hearing Protection**
- **Blunt Trauma**
- **Stabbing**
- **Extreme Environment/Climate Conditions**



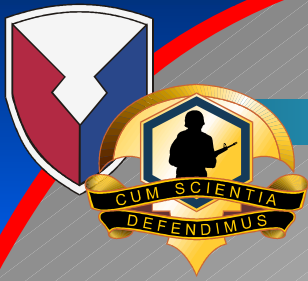
Standards Development



U.S. Army Soldier and Biological Chemical Command

- **SBCCOM provides technical support to the National Institute of Standards and Technology (NIST) in developing standards**
 - ▶ **Commercial respirators, protective suits and detectors**
 - ▶ **Working in conjunction with NIOSH (CDC / DHHS)**
 - ▶ **Work funded through Oklahoma City National Memorial Institute for the Prevention of Terrorism - GEN Dennis Reimer (Ret), Director**

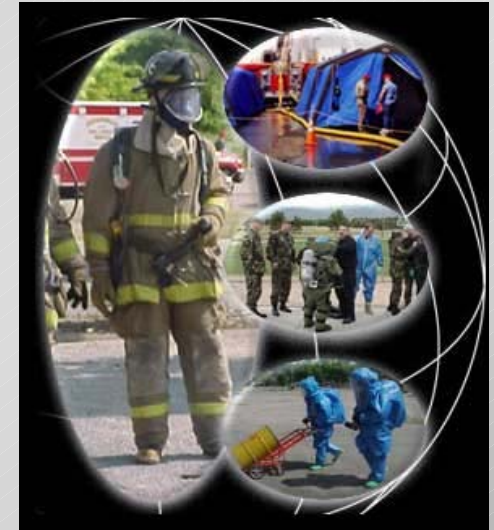




NBC Equipment Evaluation

U.S. Army Soldier and Biological Chemical Command

- Test NBC equipment to determine performance (Tested over 120 items)
 - ▶ Detectors
 - ▶ Material swatches
 - ▶ Mask / filter canister
 - ▶ Protective suits
- Post test results on Web page
 - ▶ Available to first responders
 - ▶ Data only, no recommendations



Domestic Preparedness
Enhancing the Capabilities of Federal, State and Local Emergency Responders

First Responders
EXPERT ASSISTANCE

- [Chemical/Biological HelpLine Technical Information Request Form](#)

REPORTS

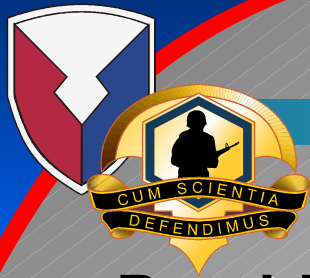
- [Test Report for SCBA Hoses](#) - January 1999
- [Final Compendium of Weapons of Mass Destruction Courses](#) - July 1998
- [Test Results of Level A Suits to Challenge By Chemical and Biological Warfare Agents and Simulants: Summary report](#) - June 1998
- [Tests of Level A Suits - Protection Against Chemical and Biological Warfare Agents and Simulants: Executive Summary](#) - June 1998

[First Responders](#) [Welcome!](#) [What's New?](#) [About Us](#) [Training Reports](#) [Press Releases](#) [Fact Sheets](#) [Site Map](#) [Technical Assistance](#)

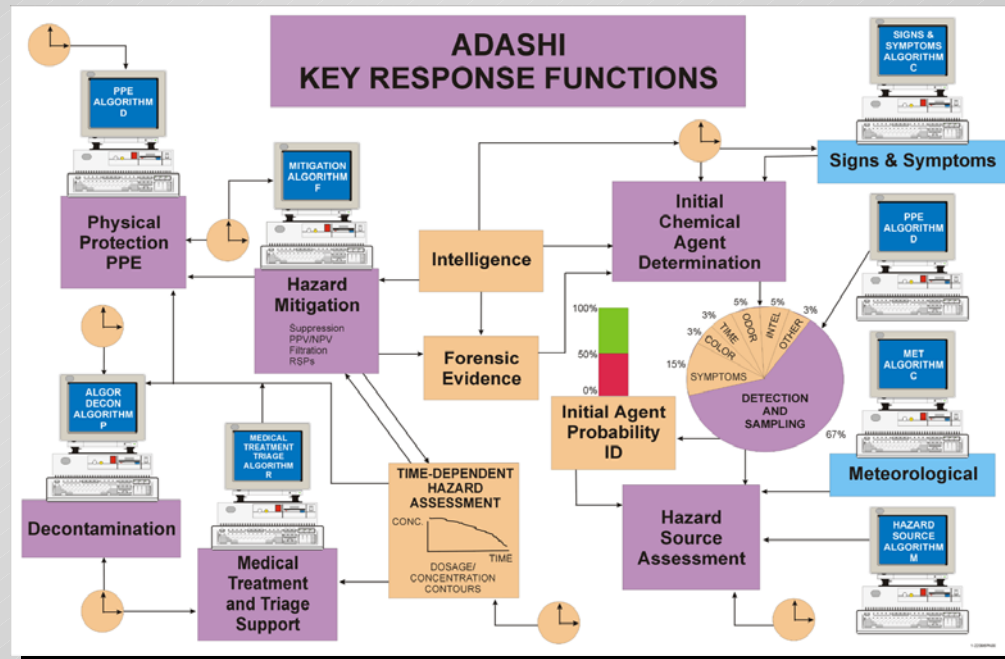
<http://www2.sbccom.army.mil/hld/index.htm>

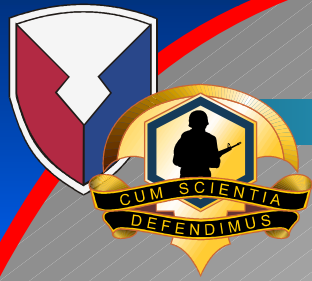
Automated Decision-Aid System for Hazardous Incidents (ADASHI)

U.S. Army Soldier and Biological Chemical Command



- Provide the emergency responders, decision makers and support personnel with a user-friendly, intelligent, PC-based tool to support decisions and courses of actions
- Enhance timely tactical decision making of operational responders in life-threatening hazardous incidents





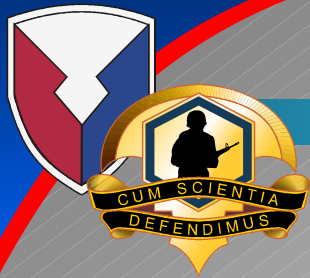
WMD-Civil Support Teams (CST)

U.S. Army Soldier and Biological Chemical Command

Mission

- **Assess a suspected nuclear, biological, chemical or radiological (NBCR) event in support of a local incident commander.**
- **Advise civilian responders regarding appropriate action.**
- **Facilitate requests for assistance to expedite arrival of additional state and federal assets.**

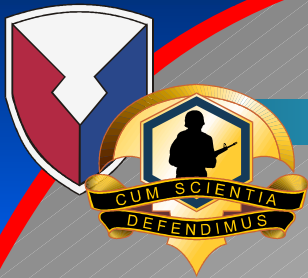




What is it?

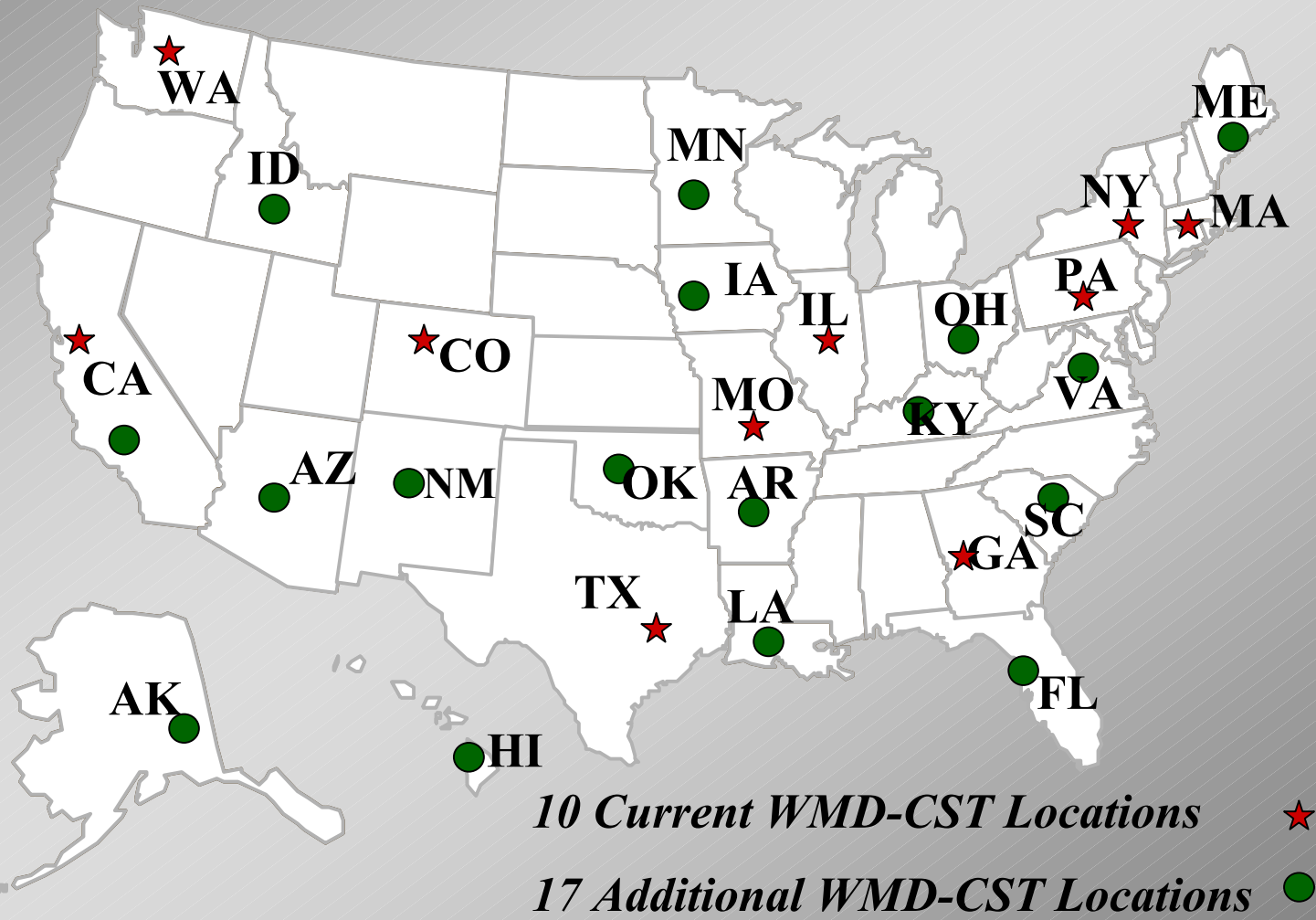
- 22 Full Time personnel per team
- Army and Air National Guard Members
- Self-sustaining entity (72 hours)
- HAZMAT certified
- OSHA Level A certified
- High tech reachback capability
- Air deployable



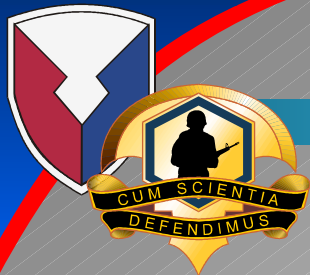


WMD-CST Unit Locations

U.S. Army Soldier and Biological Chemical Command

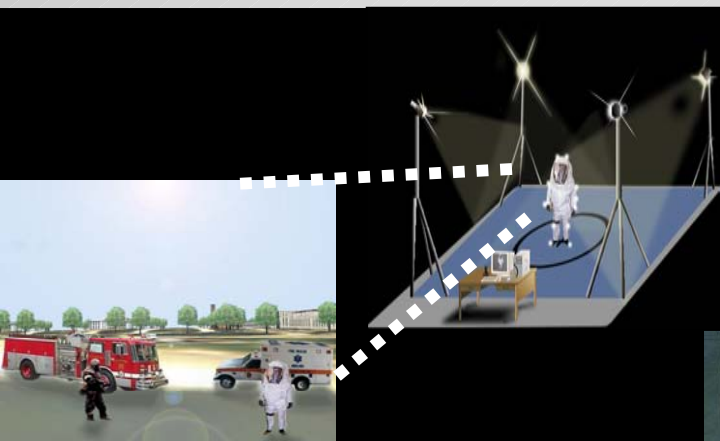


Acquisition for WMD-CST

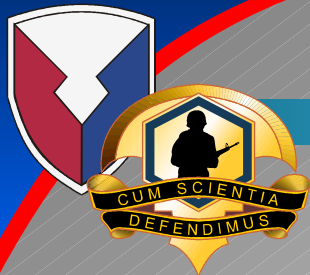


U.S. Army Soldier and Biological Chemical Command

- Personal protective equipment (PPE)
- Personnel decontamination equipment
- NBCR detection equipment
- Mobile Analytical Laboratory System
- Virtual Emergency Response Training Simulation (VERTS)
- Communication equipment
- Supplies & incidentals



Project Manager CoM RDA

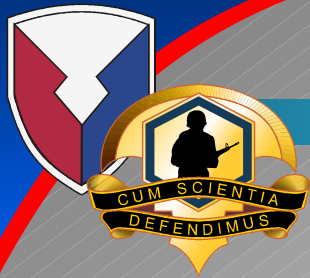


U.S. Army Soldier and Biological Chemical Command

WMD CST

- **Consequence Management - Program Integration Office initiated the process**
- **Moving towards a more structured approach**
- **Comes under Joint RDA**
- **PM established**

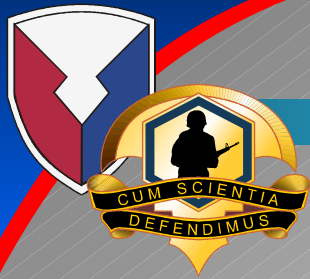
**JOINT FUNDING
JOINT FOCUS
TOTAL CoM RDA Integration**



WMD Installation Preparedness (IP)

- WMD IP process
- Technical Assistance focused on WMD IP
- Military Improved Response Program





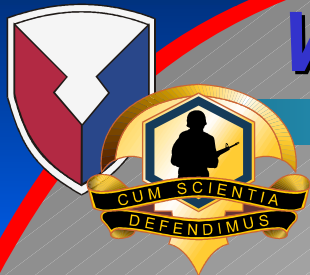
WMD Installation Preparedness

U.S. Army Soldier and Biological Chemical Command



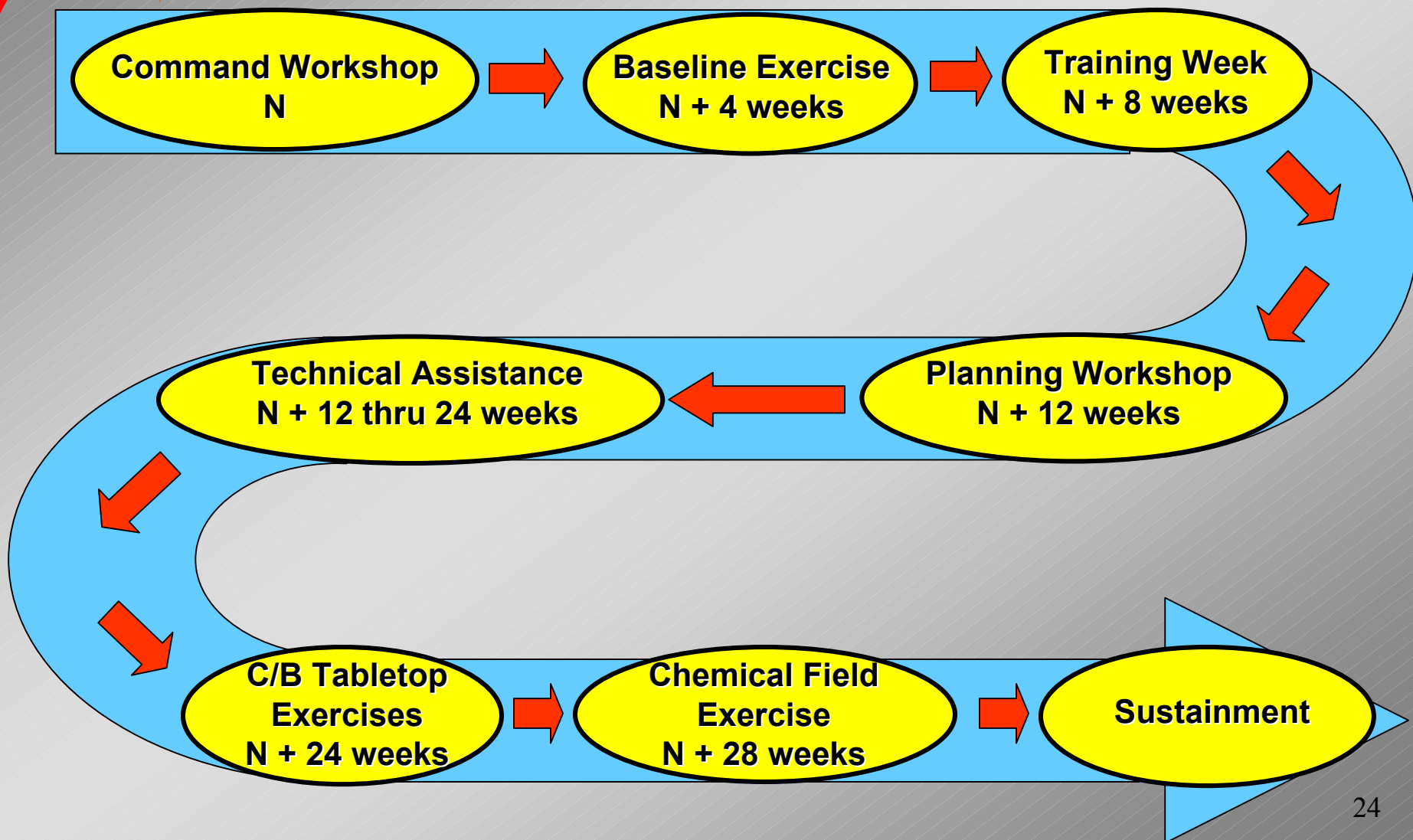
- **Pope/Bragg Study (1998)**
 - ▶ Demonstrated the impact of a CB attack on mission operations
- **Pope/Bragg Pilot (1999)**
 - ▶ Demonstrated a 45% reduction on the deployment delay resulting from a hypothetical chemical terrorist attack

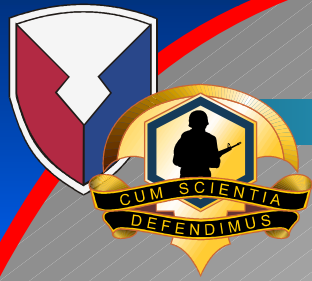
*Mar 00 Fort Bragg received a “**GREEN**” rating from FORSCOM for WMD Preparedness - the First FORSCOM Installation*



WMD Installation Preparedness Process

U.S. Army Soldier and Biological Chemical Command





WMD Installation Preparedness

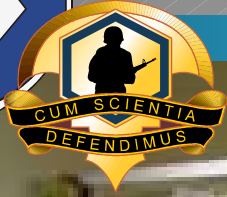
U.S. Army Soldier and Biological Chemical Command

Technical Knowledge Transfer

2001 Efforts:

- CINCPACFLT
- U.S. Coast Guard
- Fort A.P. Hill



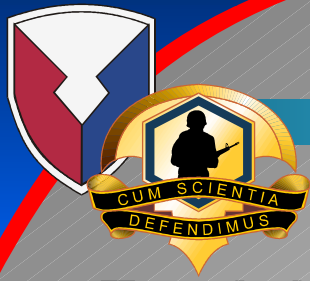


WMD Installation Preparedness

U.S. Army Soldier and Biological Chemical Command

Technology Transfer - Building / Fixed Site Protection

- **Vulnerability assessments**
- **Generate requirements based on need**
- **Recommend protective hardware & provide rapid customized prototypes**
- **Provide technical interface with A&E firms for installation**
- **Provide equipment certification / periodic testing**
- **Logistics assistance**

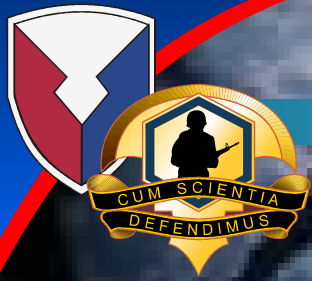


Military Improved Response Program

U.S. Army Soldier and Biological Chemical Command

- **Establish focus workgroups within DoD to identify military responder issues and coordinate IRP activities**
- **Integrate with the Service WMD Installation Preparedness programs**
- **Address the tough problems identified during installation planning, training, and exercise efforts**
- **Apply solutions developed under DP IRP to military installations & responders**



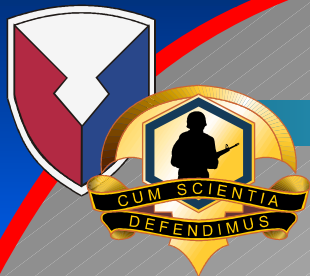


Conclusion

U.S. Army Soldier and Biological Chemical Command

SBCCOM

- **Always focused on the warfighter and demonstrated operational capability**
- **Possess a wealth of resident CB defense information**
- **Is satisfying a critical national security need by transferring / applying knowledge, technology and experience for homeland defense**



U.S. Army Soldier and Biological Chemical Command

"The grave threat from nuclear, biological, and chemical weapons has not gone away with the cold war... We have no higher priority than the defense of our people against a terrorist attack."

President
George W. Bush
13 February 2001

